Ontario

Ministry of Natural Resources

Hon. Alan W. Pope
Minister

John R. Sloan
Deputy Minister

ONTARIO GEOLOGICAL SURVEY

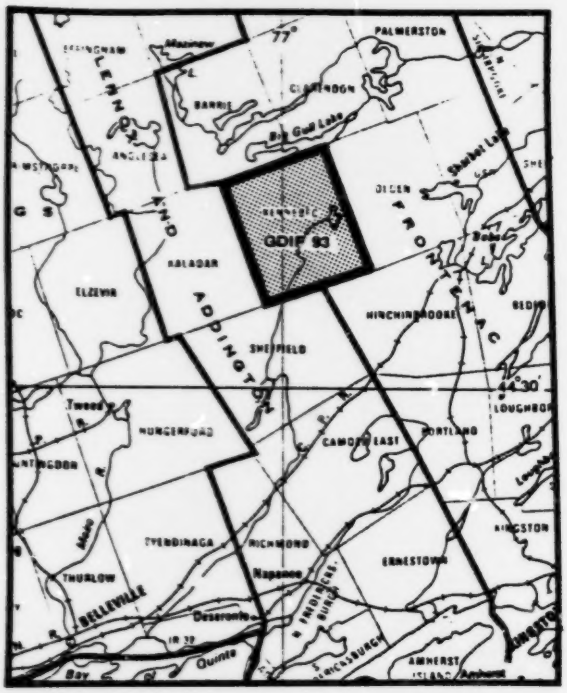
GEOLOGICAL DATA INVENTORY FOLIO

## GDIF 93

# KENNEBEC TOWNSHIP

FRONTENAC COUNTY

Compiled by the Staff of
the Resident Geologist's Office,
Tweed




LOCATION MAP

Scale 1:1 013 760 or
1 inch to 16 miles

NTS Number 31C/10,31C/11,31C/14,31C/15

Mining Claim Map Number 109

This project was funded by the Mining Sector Work Program under the sponsorship of Barrie Township.

STATEMENT: This inventory is unedited. Discrepancies may occur for which the Ontario Geological Survey does not assume liability. Information from this source may be quoted if credit is given. Reference to this inventory should be made as follows:

Ontario Geological Survey
1984: Kennebec Township, Frontenac County, Ontario Geological Survey Geological Data Inventory Folio 93 , compiled by the staff of the Resident Geologist's Office, Tweed, 16 pages and 2 maps.

Original Compilation by: Robert Palkovits, December 21, 1982

| Date | Page Revised | Revised by |
|---|---|---|
| Apr/84 | Inclusive | D.H. |

| Date | Page Revised | Revised by |
|---|---|---|

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## ACCOMPANYING MAPS

Property Location Map - 1 Map

Exploration Data Map - 1 Map

Map Scale 1: 31 680 or 1 inch to ½ mile

# CONVERSION FACTORS FOR MEASUREMENTS IN ONTARIO GEOLOGICAL SURVEY PUBLICATIONS

If the reader wishes to convert imperial units to SI (metric) units or SI units to imperial units the following multipliers should be used:

| CONVERSION FROM SI TO IMPERIAL | | | CONVERSION FROM IMPERIAL TO SI | | |
|---|---|---|---|---|---|
| *SI Unit* | *Multiplied by* | *Gives* | *Imperial Unit* | *Multiplied by* | *Gives* |
| | | | **LENGTH** | | |
| 1 mm | 0.039 37 | inches | 1 inch | **25.4** | mm |
| 1 cm | 0.393 70 | inches | 1 inch | **2.54** | cm |
| 1 m | 3.280 84 | feet | 1 foot | **0.304 8** | m |
| 1 m | 0.049 709 7 | chains | 1 chain | 20.116 8 | m |
| 1 km | 0.621 371 | miles (statute) | 1 mile (statute) | **1.609 344** | km |
| | | | **AREA** | | |
| 1 $cm^2$ | 0.155 0 | square inches | 1 square inch | **6.451 6** | $cm^2$ |
| 1 $m^2$ | 10.763 9 | square feet | 1 square foot | **0.092 903 04** | $m^2$ |
| 1 $km^2$ | 0.386 10 | square miles | 1 square mile | 2.589 988 | $km^2$ |
| 1 ha | 2.471 054 | acres | 1 acre | 0.404 685 6 | ha |
| | | | **VOLUME** | | |
| 1 $cm^3$ | 0.061 02 | cubic inches | 1 cubic inch | **16.387 064** | $cm^3$ |
| 1 $m^3$ | 35.314 7 | cubic feet | 1 cubic foot | 0.028 316 85 | $m^3$ |
| 1 $m^3$ | 1.308 0 | cubic yards | 1 cubic yard | 0.764 555 | $m^3$ |
| | | | **CAPACITY** | | |
| 1 L | 1.759 755 | pints | 1 pint | 0.568 261 | L |
| 1 L | 0.879 877 | quarts | 1 quart | 1.136 522 | L |
| 1 L | 0.219 969 | gallons | 1 gallon | **4.546 090** | L |
| | | | **MASS** | | |
| 1 g | 0.035 273 96 | ounces (avdp) | 1 ounce (avdp) | 28.349 523 | g |
| 1 g | 0.032 150 75 | ounces (troy) | 1 ounce (troy) | **31.103 476 8** | g |
| 1 kg | 2.204 62 | pounds (avdp) | 1 pound (avdp) | **0.453 592 37** | kg |
| 1 kg | 0.001 102 3 | tons (short) | 1 ton (short) | **907.184 74** | kg |
| 1 t | 1.102 311 | tons (short) | 1 ton (short) | **0.907 184 74** | t |
| 1 kg | 0.000 984 21 | tons (long) | 1 ton (long) | **1016.046 908 8** | kg |
| 1 t | 0.984 206 5 | tons (long) | 1 ton (long) | **1.016 046 908 8** | t |
| | | | **CONCENTRATION** | | |
| 1 g/t | 0.029 166 6 | ounce (troy)/ ton (short) | 1 ounce (troy)/ ton (short) | 34.285 714 2 | g/t |
| 1 g/t | 0.583 333 33 | pennyweights/ ton (short) | 1 pennyweight/ ton (short) | 1.714 285 7 | g/t |

**OTHER USEFUL CONVERSION FACTORS**

| | | |
|---|---|---|
| 1 ounce (troy)/ton (short) | 20.0 | pennyweights/ton (short) |
| 1 pennyweight/ton (short) | 0.05 | ounce (troy)/ton (short) |

**One gram(g) per tonne is equivalent to one part per million (1 ppm).**

NOTE–Conversion factors which are in bold type are exact. The conversion factors have been taken from or have been derived from factors given in the Metric Practice Guide for the Canadian Mining and Metallurgical Industries published by The Mining Association of Canada in co-operation with the Coal Association of Canada.

# DATA SOURCES CHECK LIST

NOTE: The following sources have been searched to compile the data for this map. If no reference data was found, the appropriate box is marked 'no'; if reference was found, the box is marked 'yes'.

All reference data found are included in the following pages. If the box is blank, the data source has not yet been searched. If the box is marked N.A., the source item is Not Applicable to this area and therefore not searched.

| | SOURCES OF DATA | Data | Initial |
|---|---|---|---|
| 1 | Resident Geologist's Office Files | Yes | R.P. |
| 2 | Assessment Files Research Office, Toronto | Yes | D.M. |
| 3 | ODM General Index; 7 volumes | Yes | R.P. |
| 4 | Catalogue of Airborne Geophysical Surveys (ODM) | N.A. | D.M. |
| 5 | ODM Mineral Resources Circulars and OGS Mineral Deposits Circulars | Yes | R.P. |
| 6 | ODM Industrial Mineral Reports | Yes | D.M. |
| 7 | Bibliography of Post Precambrian Theses - Karrow (ODM MP 1) | N.A. | R.P. |
| 8 | Bibliography of Precambrian Theses - Ginn (ODM MP 2) | N.A. | R.P. |
| 9 | Newspaper Clippings File | No | D.M. |
| 10 | GSC Index to Publications | Yes | D.M. |
| 11 | OGS Index to Published Maps and Reports - MP 77 and Supplements to MP 77 | Yes | R.P. |
| 12 | OGS Index Maps | Yes | R.P. |
| 13 | Source Mineral Deposit Records (O.G.S.) | Yes | D.M. |
| 14 | Author - Subject Articles File | N.A. | D.M. |
| 15 | Miscellaneous Papers: ODM & OGS | No | D.M. |
| 16 | ODM Geological Circulars: OGS Study Series | Yes | R.P. |
| 17 | ODM Preliminary Reports: ODM Bulletins | No | D.M. |
| 18 | ODM – OGS Open File Reports | Yes | D.M. |
| 19 | OGS Northern Ontario Engineering Geology Terrain Studies | N.A. | R.P. |
| 20 | OGS Aggregate Resources Inventory Papers | N.A. | R.P. |
| 21 | OGS Mineral Potential Maps | Yes | R.P. |

# METALS AND MINERALS REFERENCES LIST

△ anh. . . . . Anhydrite
△ ank. . . . . Ankerite
△ anna . . . . . Annabergite
△ ap. . . . . Apatite
△ arg . . . . . Argentite
△ As . . . . . Arsenic
△ asp . . . . . Arsenopyrite
△ asb . . . . . Asbestos
△ ba. . . . . Barite
△ be. . . . . Beryl
△ Bi. . . . . Bismuth
△ bn . . . . . Bornite
△ bran . . . . . Brannerite
△ bruc . . . . . Brucite
△ Cd . . . . . Cadmium
△ calc. . . . . Calcite
△ carb . . . . . Carbonate
△ cel . . . . . Celestite
△ cc. . . . . Chalcocite
▲ cp. . . . . Chalcopyrite
△ ch. . . . . Chert
△ clay . . . . . Clay
△ Co . . . . . Cobalt
△ cob. . . . . Cobaltite
△ cb. . . . . Columbite
▲ Cu . . . . . Copper
△ cor . . . . . Corundum
△ dol . . . . . Dolomite
△ ep. . . . . Epidote
△ ery . . . . . Erythrite
△ fel . . . . . Feldspar
△ fl . . . . . Fluorite (fluorspar)
△ fu. . . . . Fuchsite
△ gn. . . . . Galena
△ gt. . . . . Garnet
△ goe. . . . . Goethite
▲ Au . . . . . Gold
▲ gf. . . . . Graphite
△ gl . . . . . Gravel
△ gyp. . . . . Gypsum
△ hem . . . . . Hematite
△ il . . . . . Ilmenite
△ Fe . . . . . Iron
△ IF. . . . . Iron Formation
△ jas . . . . . Jasper
△ kaol . . . . . Kaolinite (kaolin)
△ ky . . . . . Kyanite
▲ Pb . . . . . Lead
△ lim . . . . . Limonite
△ Li. . . . . Lithium
△ mgst . . . . . Magnesite
△ mag . . . . . Magnetite
▲ mc . . . . . Malachite
△ Mn . . . . . Manganese
▲ mb . . . . . Marble
△ mar. . . . . Marcasite
△ ma . . . . . Marl
▲ mi . . . . . Mica
△ ml . . . . . Millerite
△ mo . . . . . Molybdenite
▲ Mo . . . . . Molybdenum
△ mon . . . . . Monazite
△ ne. . . . . Nephelite (nepheline)
△ nc. . . . . Niccolite
▲ Ni. . . . . Nickel
△ Nb . . . . . Niobium
△ Pd . . . . . Palladium
△ peat . . . . . Peat
△ pent . . . . . Pentlandite
△ Pt. . . . . Platinum
▲ py . . . . . Pyrite
△ pyl . . . . . Pyrochlore
△ pyrl . . . . . Pyrolusite
▲ po . . . . . Pyrrhotite
△ q . . . . . Quartz
△ qcv. . . . . Quartz carbonate vein
△ ra. . . . . Radioactive minerals
△ RE . . . . . Rare Earths
△ sd. . . . . Sand
△ sgl . . . . . Sand and gravel
△ ss . . . . . Sandstone
△ scap . . . . . Scapolite
△ shee . . . . . Scheelite
△ serp . . . . . Serpentine
△ sh. . . . . Shale
△ sid . . . . . Siderite
△ si . . . . . Silica
△ Ag . . . . . Silver
△ sl . . . . . Slate
△ sm . . . . . Smaltite
△ sod . . . . . Sodalite
△ spec . . . . . Specularite
△ sp. . . . . Sphalerite
△ spd . . . . . Spodumene
△ staur . . . . . Staurolite
△ stib. . . . . Stibnite
△ st . . . . . Stone
△ talc. . . . . Talc
△ Te . . . . . Tellurium
△ td. . . . . Tetrahedrite
△ th. . . . . Thorite
△ Th . . . . . Thorium
△ thuc . . . . . Thucholite
△ ti . . . . . Titanite
△ Ti. . . . . Titanium
△ tour . . . . . Tourmaline
△ trap . . . . . Trap rock
△ W. . . . . Tungsten
△ uran . . . . . Uraninite
△ U . . . . . Uranium
△ verm . . . . . Vermiculite
△ Y . . . . . Yttrium
▲ Zn . . . . . Zinc
△ zr. . . . . Zircon

**Solid triangles indicate metal and mineral occurrences shown on the accompanying maps.**

## MINERAL OCCURRENCES

| Map Ref. Letter | Name(s) | Mineralization | Source Mineral Deposit Record | References in OGS Mineral Deposits Circulars & OGS Industrial Mineral Reports | Additional References and/or Remarks |
|---|---|---|---|---|---|
| A | Arden<br>Lot 14, Con. VIII | mb | | | DEMR/CANMET 1938#781,p72,75,76<br>OGS Map 2449, Long Lake |
| B | Beaver Creek<br>Lot 17, Con. II | mi | | | OGS 1978,OFR 5252,p.108<br>OGS 1964, GC12,p.14+Map 2053<br>ODM 1942,Vol.LI,PT.IV |
| C | Big Clear Lake<br>Lot 10, Con. X | Ni,Cu | | OGS 1967,MRC5,p.6 | OGS 1979,OFR 5271,p.92-93<br>OGS 1964,GC12,p.14 + Map 2053<br>OGS Map 2449, Long Lake<br>AFRO 1959,Kennebec Twp,DHR 10<br>ODM 1942, Map 51d |
| D | Dome Mines Limited<br>Lot 32, Con. II | Au,Cu,Pb | | OGS 1979,MDC18,p.41 | OGS 1964,GC12,p.14 + Map 2053<br>OGS 1942,AR Vol.51,PT4, p.73<br>NMI File, 31C/14, Au 5<br>Steels, O, 1982, MNR Tweed |
| E | Elm Tree No. 1<br>Lot 10, Con. I | mb | | | DEMR/CANMET 1938,#781,p72,75& 76<br>OGS Map 2432 Kaladar |
| F | Elm Tree No. 2 & 3<br>Lot 11, Con. III | mb | | | DEMR/CANMET1938,#781,p72,75,76<br>OGS Map 2432, Kaladar |
| G | Elm Tree No. 4<br>Lot 14, Con. IV | mb | | | DEMR/CANMET1938,#781,p72,75,76<br>OGS Map 2449, Long Lake |
| H | Emery<br>Lot 31, Con. II & III | Au,Pb,Zn | | OGS 1979,MDC18,p.41 | DEMR:MINERAL DEV'T Files:Emery<br>NMI File 31C/14, Au 2<br>ODM Map 51d<br>OGS Map 2053 |

GDIF FORM NO. 1

## MINERAL OCCURRENCES

| Map Ref. Letter | Name(s) | Mineralization | Source Mineral Deposit Record | References in OGS Mineral Deposits Circulars & OGS Industrial Mineral Reports | Additional References and/or Remarks |
|---|---|---|---|---|---|
| I | Gold Base<br>Lot 30, Con. V | Au, Cu | | OGS 1979,MDC 18,p41 | OGS 1964,GC12, p.14 + Map 2053<br>OGS 1942,AR Vol.51,PT4,p.73<br>NMI File, 31C/14, Au 3<br>Harding 1944, p. 73 |
| J | Hughes, Amos<br>Lot 9, Con. IX | ,Zn,Cu,Pb | | | OGS 1979,OFR 5271, p.94<br>OGS Map 2449, Long Lake |
| K | Kennebec<br>Lot 11 W½, Con. II | cp,mc,po,py<br>Cu, Au | | OGS 1969,MRC 12,p135 | OGS 1978,OFR 5252,p.103-104<br>OGS 1964,GC12,p.14 + Map 2053<br>OGS 1942, AR Vol.51,PT4,p.74<br>OGS Toronto Res. Geol. Files |
| L | Ronaldson<br>Lot 14, 15, Con. I | Mo | | OGS 1968,MRC7,p.24<br>OGS 1967,IMR 21 | OGS 1978,OFR 5252,p.102-103.<br>OGS 1969,GC12,p.14 + Map 2053<br>OGS 1942,AR Vol.56,PT6,p.74<br>OGS Map 2432, Kaladar<br>NMI File 31C/11 Mo 2<br>Econ. Geol.#20, 1963 |
| M | Lot 8, Con. VI | gf | | OGS 1965,IMR20,p.16 | OGS 1964,GC 12, p.14<br>OGS 1942, AR Vol.51,PT.4,p.74 |
| N | Lot 14, Con. X. | py | | | GSC Rept. of Prog. 1872-3 |

GDIF FORM NO. 1

KENNEBEC TOWNSHIP

| TYPE OF WORK | | Numbers below represent the year in which the work was done, e.g., 68 for 1968 | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| EXPLORATION DATA filed at the RESIDENT GEOLOGIST'S OFFICE TWEED<br>COMPANY/AUTHOR (file number) | | GEOLOGICAL | GEOCHEMICAL | TRENCHING, STRIPPING | DRILLING | ASSAY DATA | UNDERGROUND WORK | PROSPECTUS, NOTES, CORRESPONDENCE | AIRBORNE MAGNETOMETER | AIRBORNE ELECTROMAGNETIC | AIRBORNE RADIOMETRIC | GROUND MAGNETOMETER | GROUND ELECTROMAGNETIC | GROUND RADIOMETRIC | INDUCED POLARIZATON | SELF POTENTIAL | RESISTIVITY | | | |
| 1 | Christie Lake Mines Ltd.<br>AFRO file: 63.1638<br>AFRO file: 10 | | | | 59 | | | | | | | 59 | 59 | | | | | | | |
| 2 | Clarendon Mining Corp.<br>AFRO file: 2.3176<br>AFRO file: 12 | | | | 79 | | | | | | | | | 78-79 | | | | | | |
| 3 | Hudson Bay Expl.&Dev. Co. Ltd.<br>AFRO file: 2.2602 | 77 | | | | | | | | | | 77 | | 77 | | | | | | |
| 4 | Shaw, L. K.<br>AFRO file: 11 | | | | 58? | | | | | | | | | | | | | | | |

GDIF FORM NO. 2

5

# DRILLHOLE SUMMARY

| Map Drilling Location Number | Company Name | Company Drillhole Number | Date Drilled | Bearing Azimuth degrees | Initial Dip of Hole degrees | Thickness of Overburden feet | Total Length of Hole feet | Mineralization Noted in Log | Assay Data Included for |
|---|---|---|---|---|---|---|---|---|---|
| 1 | Christie Lake Mines Ltd. | 1 | 1959 | 315 | -50 | 0 | 264 | | Cu,Ni,Fe,Mn, Ti |
| 2 | " " | 2 | 1959 | - | -90 | 0 | 123 | | Cu,Ni |
| 3 | " " | 3 | 1959 | 315 | -45 | 0 | 251 | | Cu,Ni,Fe,Mn, Ti |
| 4 | Clarendon Mining Corp. Ltd. | 1 | 1979 | - | -90 | 0 | 151 | | |
| 5 | " " | 2 | 1979 | - | -90 | 0 | 82 | | |
| 6 | " " | 3 | 1979 | 020 | -45 | 0 | 275 | | |
| 7 | " " | 4 | 1979 | 180 | -45 | 0 | 192 | | |
| 8 | " " | 5 | 1979 | 010 | -45 | 0 | 262 | | |
| 9 | " " | 6 | 1979 | 190 | -45 | 0 | 186 | | |
| 10 | " " | 7 | 1979 | 010 | -45 | 0 | 101.6 | | |
| 11 | Shaw, L. K. | 1 | 1958 | 030 | -50 | 0 | 77 | | |
| 12 | " " | 2 | 1958 | 010 | - | 0 | 72 | | |
| 13 | " " | 3 | 1958 | 090 | - | 0 | 28 | | |
| 14 | " " | 4 | 1958 | 315 | - | 0 | 130 | | |

KENNEBEC TOWNSHIP

# AIRBORNE GEOPHYSICAL SURVEY DATA

| No. | By<br>For | Type of Survey | Flight Altitude | Flight Line Direction | Flight Line Spacing |
|---|---|---|---|---|---|
| | | | | | |

GDIF FORM NO. 4

| Map Sample Site Reference Number | GEOCHEMICAL SURVEY DATA | | By | Reference |
|---|---|---|---|---|
| | Type of Survey | Analysis For | | |
| | | | | |

GDIF FORM NO. 5

KENNEBEC TOWNSHIP

# GEOCHEMICAL SURVEY DATA

| Map Sample Site Reference Number | Type of Survey | Analysis For | By | Reference |
|---|---|---|---|---|
| | | | | |

GDIF FORM NO. 5

# MISCELLANEOUS DATA

## AGE DATING

| Site | Method | Material | Reference | Result |
|---|---|---|---|---|
| | | | | |

| File No. | Name | Conducted By | Type of Geophysics | Con., Lot |
|---|---|---|---|---|
| 2 | Christie Lake Mines | G. W. Sander | Mag. & E.M. | X, 10 |
| 5 | Clarendon Mining Corporation Ltd. | W. H. Douglas | Radiometric | VIII, 29E½,28, 27E½<br>IX, 30,29W½, 28W½,27W½ |
| 6 | Clarendon Mining Corporation Ltd. | W. H. Douglas | Radiometric | X, 30N½<br>IX, 29NW¼,28SE½ |

GDIF FORM NO.6

# NEWSPAPER CLIPPINGS FILE

NOTE: A file of newspaper clippings about the companies listed below, who have worked in this area, is maintained in the Regional/Resident Geologist's Office. Kemptville, Ontario

GDIF FORM NO. 7

# ODM GENERAL INDEX SEARCH

**Words searched:** KENNEBEC TOWNSHIP

| Index Volume | Listing: | Report Volume | Part | Page |
|---|---|---|---|---|
| 1891-1916 | Kennebec Township, Frontenac County | | | |
| | Granite | XI | | 202 |
| | | XXII | ii | 51 |
| | Iron ore | II | | 45 |
| 1927-1940 | Kennebec Township, Frontenac County | | | |
| | Arden - Classes for Prospectors | 46 | 1 | 246 |
| | Explorations near-by Dome Mines | 49 | 1 | 113 |
| | Gold Ore shipped from (1937) | 47 | 1 | 12 |
| 1941-1950 | Kennebec Township, Frontenac County | | | |
| | Geology, Report on by W. D. Harding | 51 | 4 | 51-74 |
| | Gold Discovery | 56 | 6 | 6 |
| | Map, Geological Arden | 51 | 4 | with |
| | Ore Shipments (1937) | 58 | 1 | 58 |
| | Historical Note | 51 | 4 | 43 |
| | Limestone | 51 | 4 | 57,63-67 |
| Vol. #7 | Kennebec Township, Frontenac County | | | |
| | Mineral Occurrences listed | 12 | GC | 14 |

GDIF FORM NO. 8

# ODM GENERAL INDEX SEARCH

**Words searched:**

| Index Volume | Listing: | Report Volume | Part | Page |
|---|---|---|---|---|
| | | | | |

GDIF FORM NO. 8

## SELECTED REFERENCES

| Author | Date | Title | Reference | Map Scales and/or Report Pages |
|---|---|---|---|---|
| | | REGIONAL GEOLOGICAL COMPILATION MAPS | | |
| Meen, V. B. and Harding, W. D. | 1942 | Grimsthorpe-Kennebec Area, Hastings, Lennox and Addington, and Frontenac Counties, Ont. | ODM 51d | 1"= 1 mi. |
| Hewitt, D. F. | 1964 | Madoc Area | NTS31C, ODM 2053 | 1:126,720 |
| | 1913 | Hastings, Addington and Frontenac Counties | Map 22b | 1"=½ mi. |
| Wolff, J. M. and Smith, D. A. | 1981 | Long Lake | NTS 31C/10NW, OGS Map 2449 | 1"=½ mi. |
| | | GEOPHYSICAL MAPS | | |
| | | Aeromagnetic Maps - Kennebec Township | GSC 69G, 838OG, 95G, 97G | 1:63360 or 1"=1 mi. |
| | | SURFICIAL, PLEISTOCENE, TERRAIN ENGINEERING | | |
| | 1973 | Southern Ontario Physiography, South East | OGS Map 2227 | |
| | | MINERAL POTENTIAL MAPS | | |
| | 1978 | Ontario Mineral Potential Kingston and Part of the Ogdensburg Sheets | OGS Min. Resource Branch, OGS Map P.1505 | 1:250,000 |

GDIF FORM NO. 9

| Author | Date | SELECTED REFERENCES<br>Title | Reference | Map Scales and/or Report Pages |
|---|---|---|---|---|
| | | GEOCHEMICAL | | |
| | | GEOLOGICAL REPORTS AND MAPS | | |
| Harding, W. D. | 1942 | Geology of Kaladar and Kennebec Townships, Hastings, Lennox and Addington, and Frontenac Counties | ODM Rept.Vol.51 PT.4,p.51-74 | |
| | | JOURNAL ARTICLES, THESES, TECHNICAL REPORTS | | |

GDIF FORM NO. 9

# NOTES AND ADDENDA

AERIAL PHOTOGRAPH INDEX
Scale 1" = ½ mile

| Year | Roll Number | Flight Line | Photo Numbers |
|---|---|---|---|
| 1978 | 187 | 4443 | 255-257 |
| 1978 | 188 | 4444 | 34- 37 |
| 1978 | 106 | 4445 | 105-113 |
| 1978 | 119 | 4446 | 85-102 |
| 1978 | 130 | 4447 | 88-106 |
| 1978 | 128 | 4448 | 31- 50 |
| 1978 | 158 | 4449 | 17- 35 |
| 1978 | 131 | 4450 | 19- 37 |
| 1978 | 143 | 4451 | 83-102 |
| 1978 | 157 | 4452 | 49- 72 |
| 1978 | 162 | 4453 | 120-126 |
| 1978 | 163 | 4453 | 86- 95 |
| 1978 | 163 | 4454 | 176-195 |
| 1978 | 164 | 4455 | 143-151 |
| 1978 | 165 | 4456 | 92- 99 |
| 1978 | 189 | 4457 | 60 |

KENNEBEC TOWNSHIP

I II III IV V VI VII I VII

32 31 30 29 28 27 26 25 24 23 22 21 20

Boundary

Creek

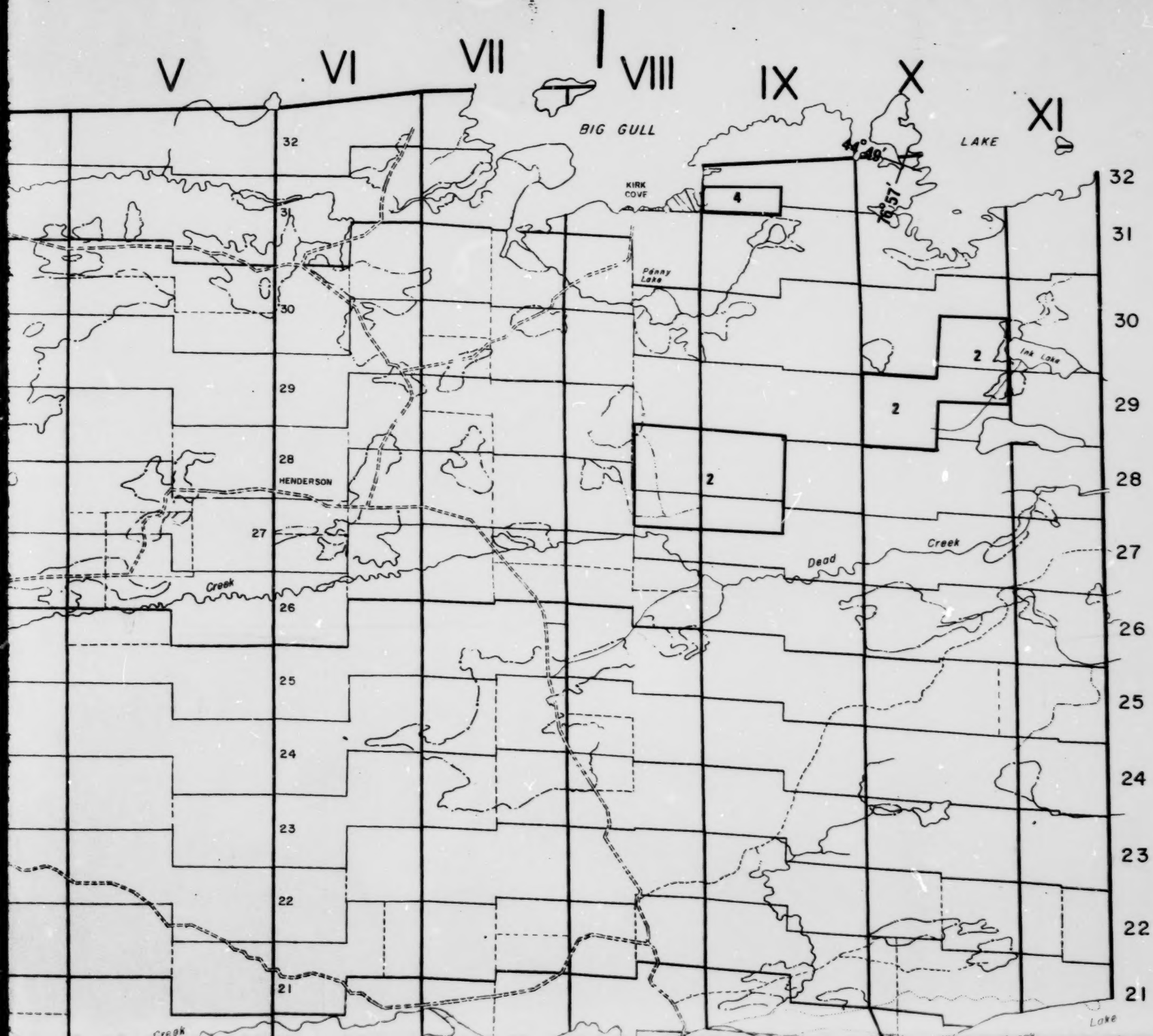
Dead

BIG GULL

KIRK COVE

HENDERSON

Creek




Ministry of Natural Resources
Ontario

Hon. Alan W. Pope
Minister

John R. Sloan
Deputy Minister

ONTARIO GEOLOGICAL SURVEY
**PROPERTY LOCATION MAP**
(Map 1 of 2 .)
to accompany GEOLOGICAL DATA
INVENTORY FOLIO 93

# KENNEBEC TOWNSHIP

**FRONTENAC COUNTY**

Scale 1:31 680

Mile 0.5 0 0.5 1 Mile

Kilometre 0.5 0 0.5 1 Kilometre

24
23
22
21
20
19
18
17
16
15
14
13
12
11
10
9

3

Creek
Beaver
Bordenwood
KENNEBEC(CROSS) LAKE
River
Salmon
KENNEBEC LAKE
Garrison Lake
P 1876 - 19
Wallbridge Lake
ARDENDALE
PACIFIC
Company
Little Mari L.
Big Mari L.
Ardon Lake
Buck Lake
RONALDSON
CANADIAN
ELM TREE
Telephone
Bell
Lake
Thompson Lake
Bull
Dutch Lake

KENNEBEC(CROSS) LAKE

Creek

Crooks Creek

Lake

River

Salmon

Garrison Lake

Wallbridge Lake

Company

Little Mart L.

Big Mart L.

Buck Lake

Lake

Thompson Lake

Dutch Lake

Bell Telephone

ARDENDALE

ARDEN

PACIFIC

Arden Lake

Cedar L.

ROCK I.

Company

BIG CLEAR LAKE

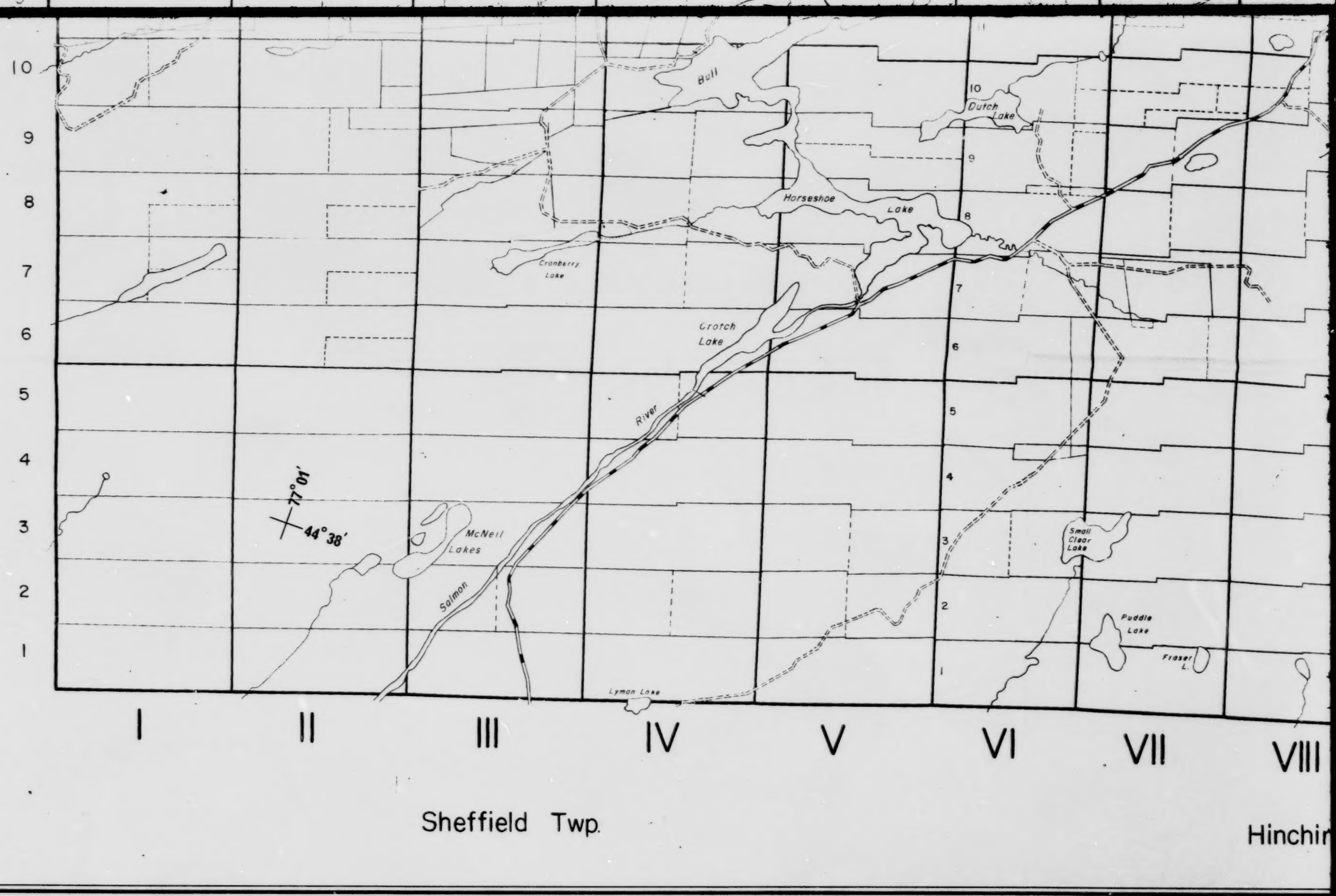
RAILWAY

Keller Lake

## EXPLORATION DATA FILE AREAS

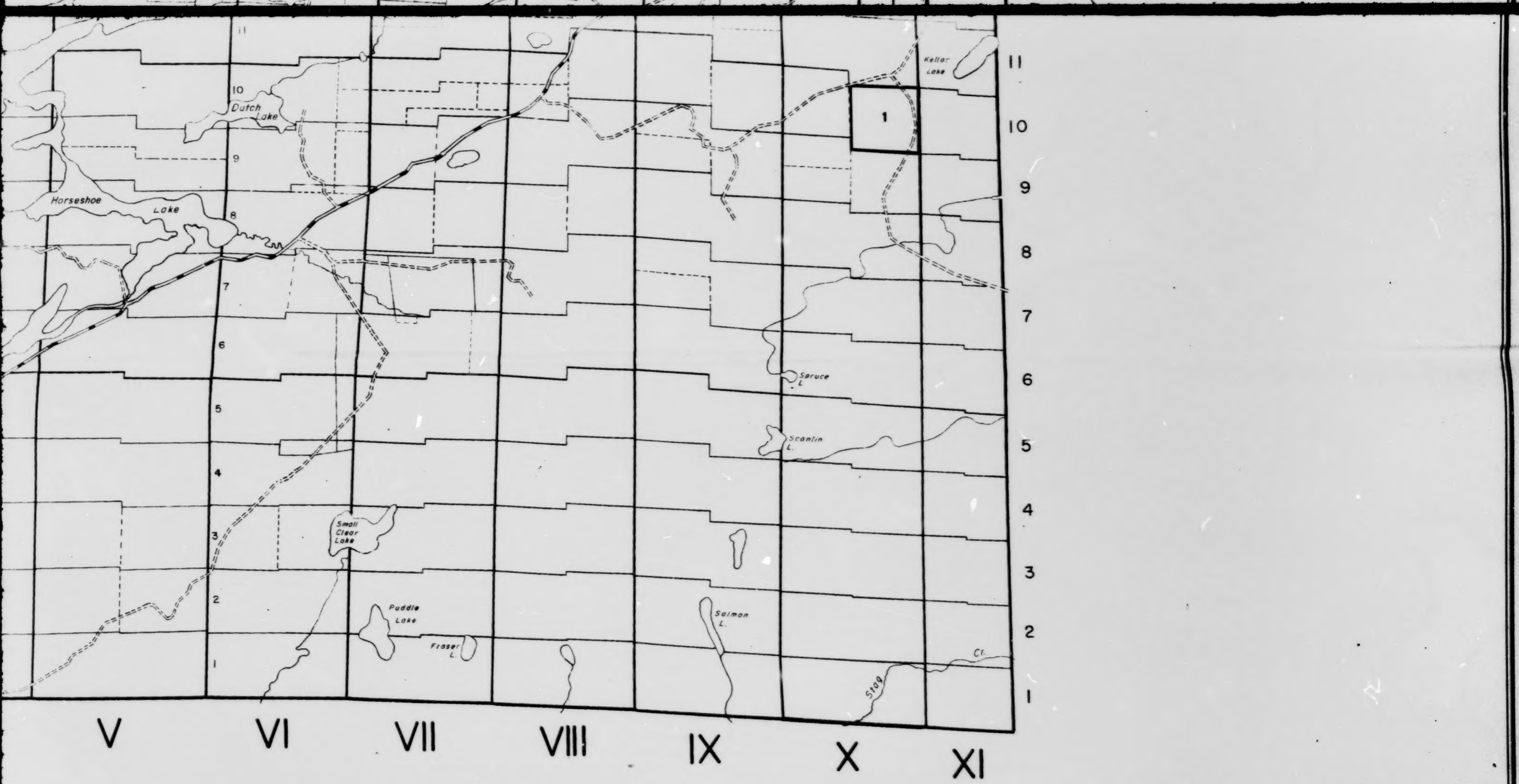
Reference number is always inside work area outlined. See listing in text pages

Small area of exploration data.




Sheffield Twp.

Hinchin




Hinchinbrooke Twp.

# Barrie Twp.

I II III IV V VI VII I VIII IX

32 31 30 29 28 27 26 25 24 23 22 21 20

Boundary

Au, Cu, Pb

Au Pb Zn

Creek

Au Cu

BIG GULL

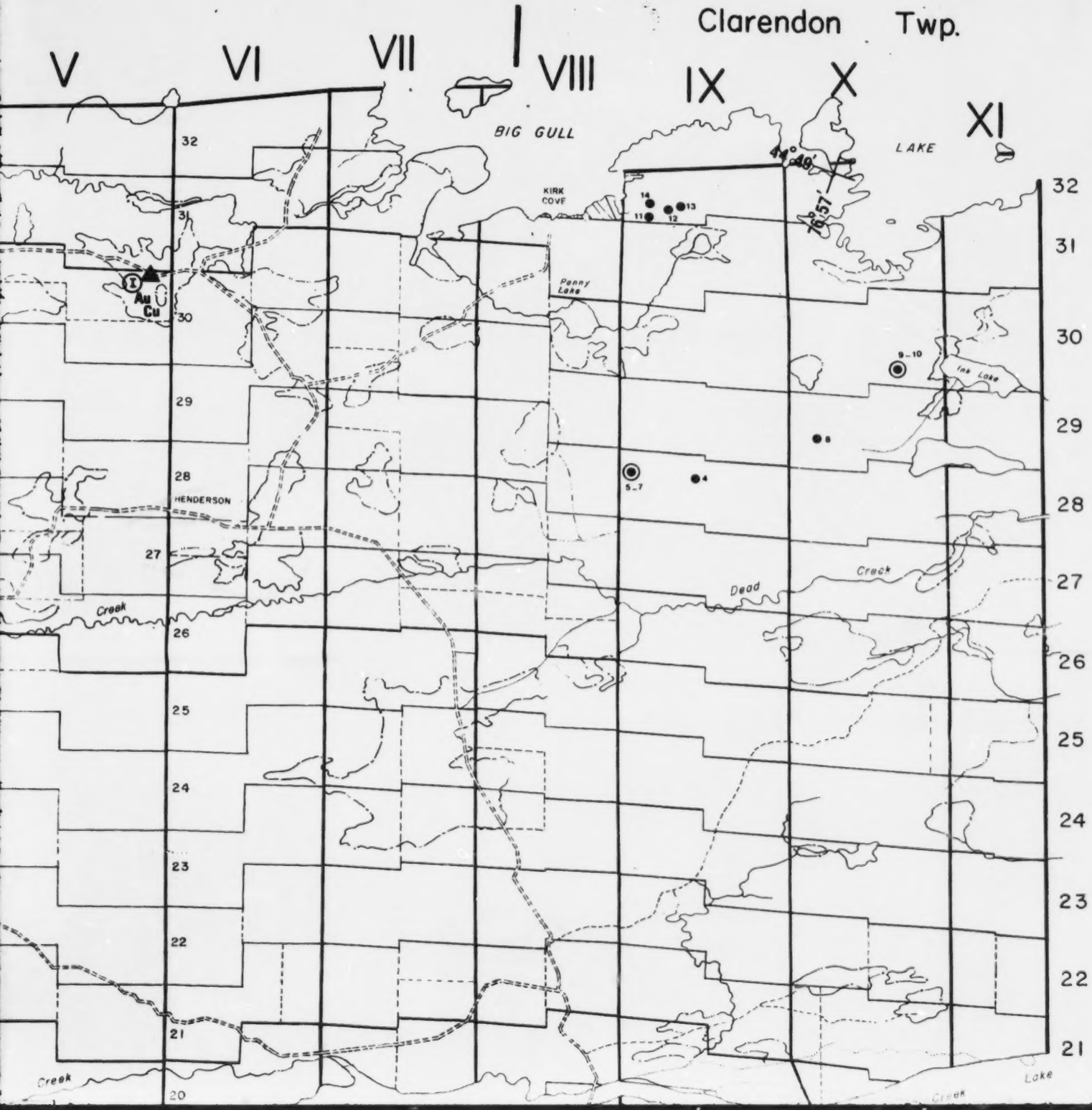
KIRK COVE

Penny Lake

HENDERSON

Creek

Dead




Ministry of Natural Resources
Ontario

Hon. Alan W. Pope
Minister

John R. Sloan
Deputy Minister

ONTARIO GEOLOGICAL SURVEY
**Map to Accompany GEOLOGICAL DATA**
**INVENTORY FOLIO 93**

# KENNEBEC TOWNSHIP

**FRONTENAC COUNTY**

Scale 1:31 680

Mile 0.5 0 0.5 1 Mile

Kilometre 0.5 0 0.5 1 Kilometre

## GEOLOGICAL AND MINING SYMBOLS

TYPES OF DATA SHOWN ON THIS MAP (Map 2 of 2.)

### MINERAL OCCURRENCES

- Mineral occurrence at surface, with reference letter
- Mineral occurrence with shaft, depth given with reference letter
- Mineral occurrence reported but exact location uncertain, with reference letter
- Mineralized Float with reference letter

Kaladar Twp.

Creek
Beaver
Gordenwood
KENNEBEC(CROSS) LAKE
River
Salmon
KENNEBEC LAKE
Garrison Lake
Telephone
Bell
Cedar L.
ARDENDALE
ARDEN
PACIFIC
Arden Lake
Little Mari L.
Big Mari L.
Buck Lake
Thompson Lake
Dutch
Hollbridge Lake
CANADIAN
RONALDSON
Company
ELM TREE
Telephone
Lake
Bull
mi
cp,mc
py,cp,Cu,Au

Olden Twp.

## GEOLOGICAL AND MINING SYMBOLS

TYPES OF DATA SHOWN ON THIS MAP (Map 2 of 2.)

### MINERAL OCCURRENCES

- Mineral occurrence at surface, with reference letter
- Mineral occurrence with shaft, depth given with reference letter
- Mineral occurrence reported but exact location uncertain, with reference letter
- Mineralized Float with reference letter

### DRILL HOLES

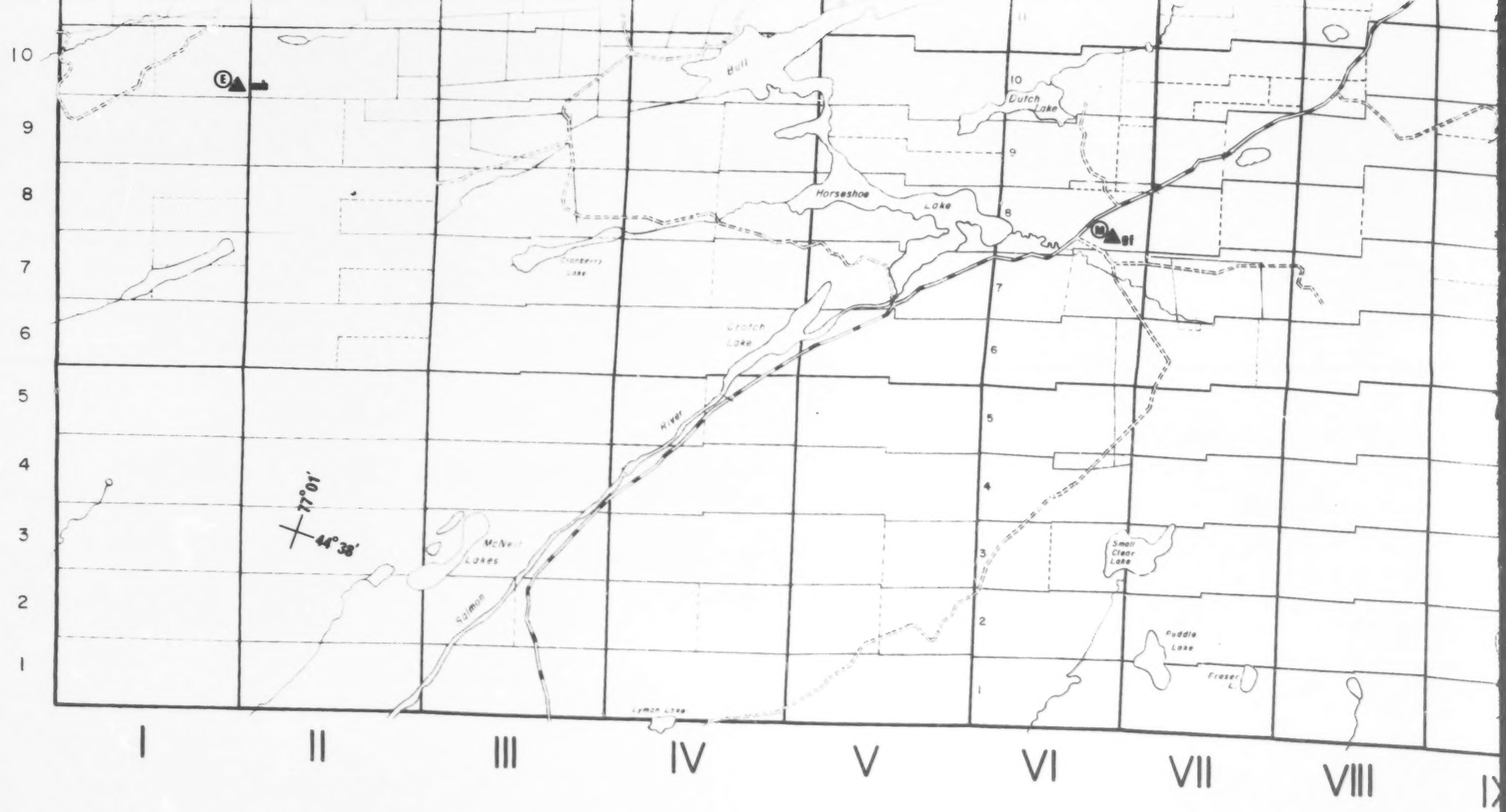
- Location of single drill hole, with reference number
- Location of closely spaced group of drill holes, with reference number
- Drill hole, exact location uncertain, with reference number.
- Property with underground drill holes in this general area, with reference number
- Property with drill holes which have not been plotted on map, with reference number
- Reverse Circulation Drill Hole; Churn drilling, with reference number

### GEOCHEMICAL AND GEOCHRONOLOGICAL DATA

- Geochemical sample site, with reference number
- Area of geochemical sampling, with reference number
- Age dating material sampling site, with reference number

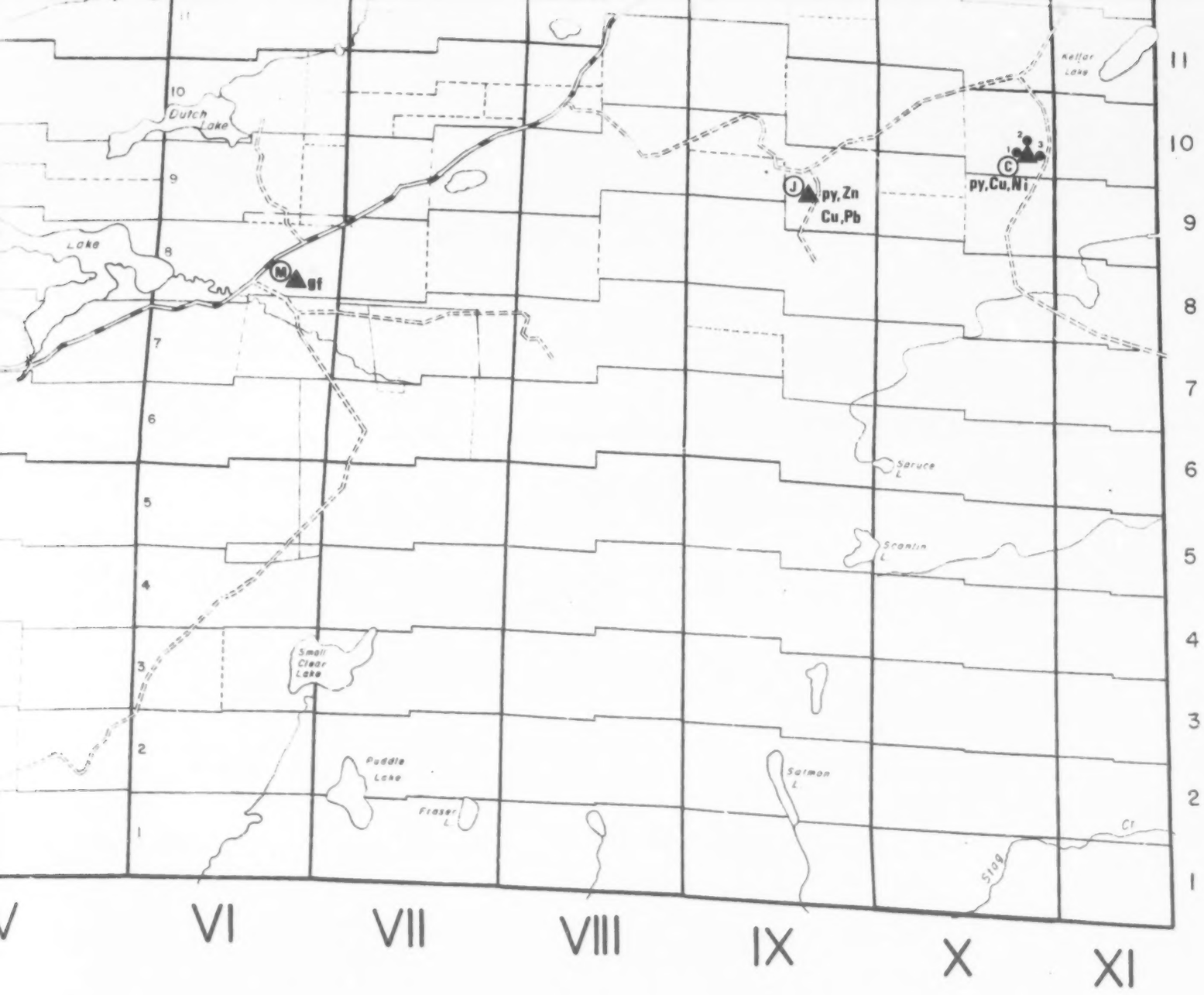
### GEOPHYSICAL ANOMALIES

- Airborne Magnetometer Anomaly
- Airborne Electromagnetometer Anomaly Length of anomaly along flight line
- Airborne Electromagnetometer Anomaly. Location of anomaly along flight line




Sheffield Twp.

Hinchinbrooke




Hinchinbrooke Twp.

- Airborne Magnetometer Anomaly (AM)
- Airborne Electromagnetometer Anomaly Length of anomaly along flight line
- Airborne Electromagnetometer Anomaly. Location of anomaly along flight line
- Airborne Electromagnetometer Anomaly Conductor Axis: definite, probable, possible
- Airborne Radiometric Anomaly (ARA)
- Ground Magnetometer Anomaly (M)
- Ground Electromagnetometer Anomaly (VL - Vertical Loop; HL - Horizontal Loop; VLF - Very low freq; Turam; JEM - Crone EM - 16) (VL)
- Ground Radiometric Anomaly (RA)
- Induced Polarization Anomaly (IP)
- Self Potential Anomaly (SP)
- Audio-frequency magnetometer anomaly (total intensity) (AFMAG)
- Resistivity Anomaly (R)
- Gravity Anomaly (GR)

**MISCELLANEOUS DATA**

- Trenching, pit
- Adit
- Open pit
- Rock quarry
- Sand and/or gravel pit

**NOTE:** Consult the text that accompanies this map for pertinent lists of data, references, and abbreviations.